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Reading of electronic label without making contact - uses circuit powered from received signal, causing impedance variation which is detected by external unit

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Patent Family:

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FR 2623311	A	19890519	FR 8715921	A	19871118	198927 B

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FR 2623311	A	32		

Abstract (Basic): FR 2623311 A

The electronic tag (100) is remotely interrogated by a fixed unit.

The tag is provided with a source of electric supply, an antenna (101), rectifiers (106, 107), receivers and decoders (112-115), a data memory (125), and responder circuits. The fixed unit has a power supply, and receiver and transmitter circuits.

The antenna in the tag is connected directly to rectifiers which provide DC supply, and to demodulators which permit extraction of the interrogation code from the signal from the fixed unit. A controlled variable impedance circuit is used to modify the electromagnetic field for detection by fixed unit to communicate back to the fixed unit.

USE/ADVANTAGE - Anti-theft tag used in retail outlets which avoids need of separate receiving and transmitting antennae, of having antenna at particular angle relative to fixed unit, and allowing bidirectional information transfer.